

**PATENT**

**S/N Unknown**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Rida M. Hamza et al.	Examiner:	Unknown
Serial No.:	Unknown	Group Art Unit:	Unknown
Filed:	Herewith	Docket:	H0005041 (256.149US1)
Title:	MULTI-STAGE MOVING OBJECT SEGMENTATION		

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

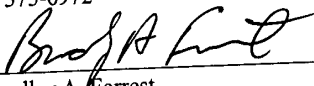
RIDA M. HAMZA ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402  
(612) 373-6972

Date 10-14-2003

By

  
Bradley A. Forrest  
Reg. No. 30,837

"Express Mail" mailing label number: EV298566169US

Date of Deposit: October 14, 2003

This paper or fee is being deposited on the date indicated above with the United States Postal Service pursuant to 37 CFR 1.10, and is addressed to The Commissioner for Patents, Mail Stop Patent Application, P.O.Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)	Complete if Known	
	Application Number	Unknown
	Filing Date	Even Date Herewith
	First Named Inventor	Hamza, Rida
	Group Art Unit	Unknown
	Examiner Name	Unknown
Sheet 1 of 2		Attorney Docket No: H0005041 (256.149US1)

US PATENT DOCUMENTS						
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
	US-2003/0040815	02/27/2003	Pavlidis, Ioannis	700	48	06/21/2002
	US-2003/0053658	03/20/2003	Pavlidis, Ioannis	382	103	12/27/2001
	US-2003/0053659	03/20/2003	Pavlidis, Ioannis, et al.	382	103	12/27/2001
	US-6,487,304	11/26/2002	Szeliski, Richard S.	382	107	06/16/1999
	US-6,526,156	02/25/2003	Black, Michael J., et al.	382	103	09/03/1997

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T <sup>2</sup>

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T <sup>2</sup>
		"Automatically Finding the Number of States in a Video Sequence", <a href="http://www.dbv.informatik.uni-bonn.de/Video/page_3.html">http://www.dbv.informatik.uni-bonn.de/Video/page_3.html</a> , (2003),4 pages				
		"Example Sequences", <a href="http://www.dbv.informatik.uni-bonn.de/Video/page_5.html">http://www.dbv.informatik.uni-bonn.de/Video/page_5.html</a> , (2003),4 pages				
		"Global Illumination States", <a href="http://www.dbv.informatik.uni-bonn.de/Video/page_2.html">http://www.dbv.informatik.uni-bonn.de/Video/page_2.html</a> , (2003),3 pages				
		"State-Dependent Background Estimation", <a href="http://www.dbv.informatik.uni-bonn.de/Video/page_4.html">http://www.dbv.informatik.uni-bonn.de/Video/page_4.html</a> , (2003),3 pages				
		"The Background Estimation Problem", <a href="http://www.dbv.informatik.uni-bonn.de/Video/page_1.html">http://www.dbv.informatik.uni-bonn.de/Video/page_1.html</a> , (2003),2 pages				
		BURNS, J. BRIAN, "Detecting Independently Moving Objects and Their Interactions in Georeferenced Airborne Video", <u>IEEE Workshop on Detection and Recognition of Events in Video</u> , Abstract, Vancouver, Canada, (July 8, 2001),1 page				
		HARVILLE, MICHAEL, et al., "Adaptive Video Background Modeling Using Color and Depth", 4 pages				
		HARVILLE, MICHAEL, et al., "Foreground Segmentation Using Adaptive Mixture Models in Color and Depth", 9 pages				
		STAUFFER, CHRIS, "A Forest of Sensors--Tracking Adaptive Background Mixture Models", <a href="http://www.ai.mit.edu/projects/vsam/Tracking/index.html">http://www.ai.mit.edu/projects/vsam/Tracking/index.html</a> , (1999),6 pages				
		STAUFFER, CHRIS, et al., "Adaptive Background Mixture Models for Real-time Tracking", <u>Proc. CVPR'99</u> , (June 1999),7 pages				

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional) <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

<b>Application Number</b>	Unknown
<b>Filing Date</b>	Even Date Herewith
<b>First Named Inventor</b>	Hamza, Rida
<b>Group Art Unit</b>	Unknown
<b>Examiner Name</b>	Unknown

Sheet 2 of 2

Attorney Docket No: H0005041 (256.149US1)

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		STAUFFER, CHRIS , et al., "Learning Patterns of Activity Using Real-time Tracking", 1-17	

**EXAMINER****DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional) <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached